



PERFECTLY "LINED UP" FOR POWER

Two new developmental RCA Ceramic-Metal Beam Power Tubes have grids fabricated by unique method that insures perfect grid alignment for maximum tube operating efficiency, makes possible a grid assembly with high mechanical strength.

Newest products of RCA's continuing research in ceramic-metal tubes are two developmental, compact, forced-air-cooled beam-power-tube types that utilize a control-grid-and-screen-grid assembly featuring precision grid line-up and exceptional structural rigidity. These features are achieved by taking two concentric metal "thimbles", brazing them rigidly to a ceramic center pin, and "broaching" them simultaneously into grids by the electrical-discharge technique. Result: Absolutely accurate line-up between the wires of the two grids, no welds on the grids, true one-piece grid structures, and a stress-free assembly having high mechanical strength. The benefits are apparent: Accuracy of alignment minimizes screen current, and the one-piece grids of special precipitation-

hardened copper alloy for greater rigidity provide high electrical and thermal conductivity.

The axial ceramic pin rigidly holds the two grids and the cathode in fixed positions with respect to each other, and thus makes the assembly resistant to shock and vibration.

Data for these two types are shown in the adjacent chart. Both types are environmentalized and have forced-air-cooled radiators. Developmental versions of these types without radiators are available for use with other cooling methods.

For further information about these and other RCA Ceramic-Metal Power Tubes, contact the RCA Field Representative at our office nearest you.

Dev. Types	Operation	Max. Plate Volts	Max. Plate Input Watts	Max. Plate Dissipation Watts	Useful CW Power Output—Watts		Power Gain	
					at 400 MC	at 1215 MC	at 400 MC	at 1215 MC
A-2572	CW or AM	2500	1250	600	760	450	20	6

Dev. Types	Operation	Max. Plate Volts	Max. DC Plate Amperes During Pulse with 10 μ s duration and duty factor of 0.01	Max. Plate Dissipation Watts	Useful Power Output at Peak of Pulse—Watts at 1215 MC	Power Gain at 1215 MC
	Screen Pulsed	4000	9	600	15000	5

*Peak positive

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